FUNSHTEYN, Lev Vladimirovich; VASIL'YEVA, Ye.I.; CRACHEVA, N.D.;

OCHINSKAYA, G.V.; PROTAS, L.R.[deceased]; RABINOVICH, R.M.;

SHCHERBAN', E.I.; SIPOVSKIY, P.V., red.; RULEVA, M.S., tekhn.
red.

[Atlas of the pathological anatomy of acute experimental radiation sickness] Atlas patologicheskoi anatomii ostroi luchevoi bolezni v eksperimente. Leningrad, Medgiz, 1961. 216 p.

(MIRA 15:2)

(RADIATION SICKNESS) (ANATOMY, PATHOLOGICAL-ATLASES)

FUNSHTEYN, L.V.; OCHINSKAYA, G.K.; SHCHERBAN!, E.I.

Morphological changes in the internal organs of mice following a single high dose of X irradiation. Radiobiologiia 1 no.3:440-445 (MIRA 14:10)

	Method for histoautoradiogram no.4:15-19 '61. (AUTORADIOGRAPHY)	ohy of biopsy material. Med.rad. (MIRA (BIOPSY)	6 14:12)
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LEYTES, F.L.; FUNSHTEYN, L.V.

Effect of Naftalan petroleum extract on changes in the epidermis after local α -irradiation. Biul. eksp. biol. i med. 51 no.3: 121-125 Mr '61. (MIRA 14:5)

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta kurortologii i fizioterapii i TSpntral'nogo nauchno-issledovatel'skogo instituta meditsinskoy radiologii, Leningrad. Predstavlena deystvitel'nym chlenom AMN SSSR I.G.Rufanovym.

(SKIN) (PETROLEUM_THERAPEUTIC USE)

(ALPHA RAYS—PHYSIOLOGICAL EFFECT)

1

L 16176-63 EMT(1)/EWT(m)/BDS/ES(j) AMD/AFFTC/ASD

ACCESSION NR: AT3002380

8/2930/62/000/000/0197/0206

AUTHOR: Funshteyn, L. V.; Sipovskiy, P. V. (Leningrad)

57

TITLE: Morphological changes in sudden radiation death and in so-called radiation shock death

SOURCE: K voprosam ranney diagnostiki ostroy luchevoy bolezni; sbornik nauchnykh rabot. Kiev, Medgiz USSR, 1962, 197-206

TOPIC TAGS: morphological change, large X-irradiation dose, internal radiation, sudden death, leucocyte, organ, radiation shock, X-ray, Cobalt-60, survivability

ABSTRACT: Morphological changes after irradiation and up to time of death were studied in 30 animals (rabbits and guinea pigs). 7 animals were exposed to single total X-irradiation of 800 or 500 r, 17 animals were exposed to X-irradiation doses fluctuating from 1500 to 9840 r, 5 animals were internally irradiated with Co⁶⁰ (2.5 to 20 microcuries/kg), and 1 animal was internally irradiated with Cs¹³⁷ (35 microcuries/kg). All animals died within the following periods: 7 during irradiation, 6 the 1st day, 13 at 1-2.5 days, and 4 at 3.5-12 days. Organ tissues were investigated and leucocyte counts made. Results Cord 1/2

L 16176-63

ACCESSION NR: AT3002380

show that an accumulation of leucocytes is found in the lungs and spleen of X-irradiated animals dying the first day except for the internally irradiated animals. In X-irradiated animals with increased survivability the number of leucocytes in the organ tissues drops progressively and after 3.5-12 days no leucocytes can be found. Tissue investigations reveal morphological changes in the kidneys, liver, lungs, bone marrow, spleen, and lymph nodes in the form of blood circulatory and dystrophic-necrotic disturbances. These changes coincide or approach morphological manifestations of acute radiation sickness. Dariation shock and conditions leading to death within 2 days after exposure can be equated morphologically with a fulminant form of acute radiation sickness. In radiation shock the most immed-late causes of death are the various lung changes which restrict the respiratory function. Morphological changes in the organs of all animals studied are practically alike and cannot be identified by time of death. Orig. art. has: 6 figures, 1 table.

ASSOCIATION: None

DATE ACQ: 28May63 SUBMITTED: 00

ENCL: 00

Cord 2/2 SUB CODE: AM NO REF SOV: 010 OTHER: 013

S/241/63/008/001/001/006 D296/D307

AUTHORS:

Vorob'yev, Ye.I. and Funshteyn, L.Y.

TITLE:

Results of research in the field of radiobiology in Public Health Institutions in 1961

PERIODICAL:

Meditsinskaya radiologiya, v. 8, no. 1, 1963, 38-45

The authors review the results of research in the field of radiobiology carried out in 1961. Nost of the topics were concerned with the pathogenetic mechanisms underlying the development of radiation sickness, e.g. changes in the plasma proteins, and in tissue metabolism. Some of the authors reviewed, however, studied the carcinogenetic effects of different types of radiation; changes in the immunological response; and in the hormone and vitamin balance after exposure to radiation. The article underlines the wide range of problems covered by the investigations, the high technical standards and the highly developed cooperation between the different departments. Among the shortcorings the authors criticize the inadequate attention paid to the quantitative aspects of radiobiology and

CIA-RDP86-00513R000513910009-3"

APPROVED FOR RELEASE: 03/13/2001

Results of research ...

3/241/63/008/001/001/006 D296/D307

the fact that none of the departments concerned applied bibernetical methods to the clucidation of radiobiological problems. No specific references are quoted.

ASSOCIATION:

Tsentral'nyy nauchno-issledovatel'skiy institut meditsinskoy radiologii Ministerstva zdravookhraneniya SSSR (Central Scientific Research Institute of Medical Radiology, Ministry of Health of the USSR)

SUBMITTED:

September 22, 1962

Card 2/2

VOROBITIN, Yeal., FUNCTION, 1.V.

Resolution of the Central Committee of the Committee Party of the Books. Party of the Books Union and Council of Ministers of the Books. Selence and improving its milation to positive and improving its milation to positive and industrial in the levelopment of biology. Met. rad. Ruse. S. 7 1883. (1992-1994)

1. In Tientral Inogo neuchno-isalwas. The law rentpend-railelagioheskogo instituta Ministeratus Francoskimaneriya Sible.

VAVILIN, G.I.; FUNSHTEYN, L.V.; SHCHERBAN', E.I.

Histoautoradiographic study of the distribution of phthivazid labelled with radicactive carbon in the lung, liver and spleen. Probl. tub. 42 no.3:74-79 *64. (MIRA 18:1)

1. Jeningradskiy nauchno-issledovateliskiy institut tuberkuleza (direktor - prof. A.D. Semenov) i TSentralinyy nauchno-insledovateliskiy rentgeno-radiologicheskiy institut (direktor Ye.I. Vorobiyev), Leningrad.

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000513910009-3

L 56549-65

ACCESSION NR: AP5010353

UR/0205/65/005/002/0282/0284

AUTHOR: Funshteyn, L. V.

TITLE: Possibility of artificially inducing planocellular metaplasia of sebaceous glands in irradiated skin of rabbits

SOURCE: Radiobiologiya, v. 5, no. 2, 1965, 282-284

TOPIC TAGS: animal, rabbit, gamma-irradiation, X-irradiation, single radiation dose, irradiation effect, sebaceous gland, skin, tissue, metaplasia, scarlet red

ABSTRACT: In experiments staged on adult rabbits, the ears of some animals were gamma-irradiated (Co-60 source, 170 r/min) with a 4 kr dose and the ears of others were X-irradiated (90 kv, 10 ms, filter 1 mm Al, focal length 23 cm, 32.2 r/min) with a 3.6 kr dose to determine the effect of irradiation on tissue metaplasis. Following gamma-irradiation scarlet red (1 ml) was injected subcutaneously into one ear on the 16th day, and skin tissues were taken for histological investigation from both cars for the next 5 days. Following X-irradiation scarlet red (1 ml) was injected into both animal ears on the 27th day, and skin tissues were investigated at periods of 7, 14, 21, 28, and 58 days later. After irradiation an inflammatory infiltrate was observed in the skin tissues consisting mostly of

Card 1/2

L 56549-65

ACCESSION NR: AP5010353

pseudocosinophils at first and later of histocytes and lymphocytes. In 1-5 days after the injection of scarlet red, sebsceous glands were absent in most of the hair follicles. In cases where sebsceous glands were still present, they were found in the form of large light cells without the cambial elements, surrounded by planocellular epithelium. The planocellular metaplasia of the sebsceous glands developing after scarlet red injection lasted for a long time, and was the same for gumma- and X-irradiation regardless of whether scarlet red was introduced 2 or 4 weeks after irradiation. If metaplasia may be regarded as a form of adaptation to new living conditions on the part of the epithelial tissues, findings show that neither gamma- nor X-irradiation destroyed this inherited adaptive mechanism. Orig. art. has: 1 figure.

ASSOCIATION: Tsentral'nyy nauchno-isaledovatel'skiy institut MZ SSSR, Leningrad (Central Scientific-Research Institute MZ SSSR, Leningrad)

SUBMITTED: 22Jul63

ENCL: 00

SUB CODE: LS

NR REF SOV: 010

OTHER: OOL

171B Card 2/2

FUNSHTEYN, L.V.

Possibility for artificial flat cell metaplasia of sebaceous glands in the irradiated skin of rabbits. Radiobiologiia 5 no.2:282-284 '65. (MIRA 18:12)

1. TSentral'nyy nauchno-issledovatel'skiy rentgenoradiologicheskiy institut Ministerstva zdravookhraneniya SSSR, Leningrad.

FUNSHTEYN, L.V.; VAVILIN, G.I. [Leningrad]

Distribution of sulfur-containing compounds (methionine-S35) in the focus of pulmonary tuberculosis. Arkh. pat. 27 no.9:27-31 '65.

(MIRA 18:12)

1. TSentral 'nyy nauchno-issledovatel'skiy rentgeno-radiologicheskiy institut (direktor Ye.I. Vorob'yev) Ministerstva
zdravookhraneniya SSSR i Leningradskiy nauchno-issledovatel'skiy
institut tuberkuleza (direktor A.D. Semenov) Ministerstva zdravookhraneniya RSFSR. Submitted October 9, 1963.

RYAZANOVA, Faina Dmitriyevna, dots.; FUNSHTEYN, Yakov Naumovich, dots.; KHUDOKORMOVA, Rimma Nikolayevna, assistent; LYAKHOVICH, L.S., kand. tekhn. nauk, red.; LEVINA, S.G., red.

[Laboratory manual on metallography and the heat treatment of metals] Laboratornyi praktikum po metallovedeniiu i termicheskoi obrabotke metallov. Minsk, Vysshaia shkola, 1965. 124 p. (MIRA 18:6)

Saving electric power at the Minsk Automobile Flant. Mashinostroitel' no.9:35-37 S'60. (MIRA 13:9) (Minsk—Automobile industry) (Minsk—Electric power distribution)

ALEKSANDROV, B.I.; MISHIN, P.A.; FUNSHTEYN, Ya.N.; DHOZD, S.N.;

VASILUTS, F.P.

Effect of surface hardening on the strength of the rear semiaxle casing of motor vehicles. Sbor.trud.Inst.mash.i avtom.AN RSSR no.2:29-45 *61. (MIRA 15:3)

(Case hardening) (Motor vehicles—Axles—Testing)

"APPROVED FOR RELEASE: 03/13/2001 CIA-R

CIA-RDP86-00513R000513910009-3

S/122/62/000/012/007/007 D262/D308

AUTHOR:

Funshteyn, Ya. N., Engineer

TITLE:

Liquid bath cyaniding with application of potassium ferrocyanide K_L Fe(CN)₆

PERIODICAL:

Vestnik mashinostroyeniya, no. 12, 1962, 66 - 67

TEXT: Experiments with 15 and 20 steels, treated in a bath consisting of 2/3 CaCl₂ and 1/3 NaCl (by weight) with 3% (of total weight) addition of K₄Fe(CN)₆, were conducted in order to establish the effect of time and temperature of treatment of the depth of the diffusion layer and to determine the concentration of carbon and nitrogen in the cyanided layer. Conclusions: The procedure is quite safe for the working personnel and can be used in medium and high temperature cyaniding processes. To strengthen the surface layer to the depth of 0.05-0.45 mm cyaniding should be executed in an electroplating vat

Card 1/2

Liquid bath cyaniding ...

S/122/62/000/012/007/007 D262/D308

(without heat-resisting crucible) at $840 \pm 10^{\circ}\text{C}$ with immediate hardening. Because of the cleanness of cyanided surfaces and their small deformation the cyaniding process can be applied after the final mechanical treatment. There are 3 figures and 1 table.

Card 2/2

FUNSHTEYN, Ya.N.

Universal Liquid bath for cyaniding without the use of poisonous cyanic salts. Avt.prom. 29 no.1:40-41 Ja '63. (MIRA 16:1)

1. Belorusskiy politekhnicheskiy institut.
(Case hardening)

FUNSHTEYN, Ya.N.; GOTLEYB, B.Ya.; KRUCHINA, S.K.

High-temperature natural-gas cementation. Avt.prom. 29 no.9: 41-42 S '63. (MIRA 16:9)

1. Minskiy avtozavod.

(Cementation (Metallurgy))

ANDRYUSHCHENKO, N.F.; LYAKHOVICH, L.S.; MISHIN, P.A.; FUNSHTEYN, Ya.N.

Surface hardening of the semiaxles of the rear axle of the MAZ-200 and MAZ-205 motortrucks. Avt.prom. 29 no.10:31-33 0 '63.

1. Minskiy avtozavod i Belorusskiy politekhnicheskiy institut.

L 63016~65 EMT(m)/EMA(d)/EMP(t)/EMP(k)/EMP(z)/EMP(b)/EMA(c) חולענה ACCESSION NR: AP5015968 UR/0113/65/000/005/0040/0041 629.11.011.6:539.433 AUTHORS: Lyakhovich, L. S.; Mishin, P. A. (deceased); Funshtoyn, Ya. N. TITLE: Strengthening of low-carbon steel sheets by the method of strip burdening SOURCE: Avtomobil' naya promyshlemnost; no. 6, 1965, 40-41 TOPIC TAGS: strip hardening, strip quenching, steel sheet property/ St 3 steel, 10KP low carbon steel, 20KP low carbon steel, 25 low carbon steel, 15GS low carbon steel, 1khGS low carbon steel, 19KhGS low carbon steel ABSTRACT: To determine the strengthening effects of strip quenching on steel sheet, the strength, stiffness and impact strength of sheet steel specimens (213 x 213 mm) were experimentally determined for untreated specimens and specimens with 15-man wide hardened strips (61 mm apart in both directions) which were produced by high frequency electric heating and sorbitic phase quenching. Specimens of low carbon steels St3, 10KP, 20KP, 25, 15GS, 11KhGS, 19KhGS were tested. It was found that the tensile strength increased by factors of 1.5-2 (from 38 to 68 kg/mm² for St3; 37-77 for lOKP and 20KP; 58-125 for 19KhGS) with corresponding decrease in & (from 30, 33, and 21% to 7, 3, and 2% respectively for St3, 10%P and

L 63016-65

ACCESSION NR: AP5015968

19KhGS). The stiffness, which was measured by checking the central deflection of porimeter-supported sheets due to central loadings at 0.5-ton intervals, was found to increase by factors of 1.5-2. The impact strength was measured by repeated loads (0.67 kg) at the center of the sheets. It was found that the impact strength increased by factors of \approx 2 (14 494 blows to failure for treated versus 6346 blows for untreated St3; 29 500 versus 15 650 for 15GS) for sheets 3-mm thick. It was concluded that strip strengthening of steel sheet permits thinner sheets and consequent significant material savings in industrial applications. Orig. art. hes: 2 tables and 3 figures.

ASSOCIATION: Belorusskiy politekhnicheskiy institut (Belorussian Polytechnical

Institute); Minskiy aytozavod (Minsk Automobile Factory)

SUBMITTED: 00

EMCL: 00

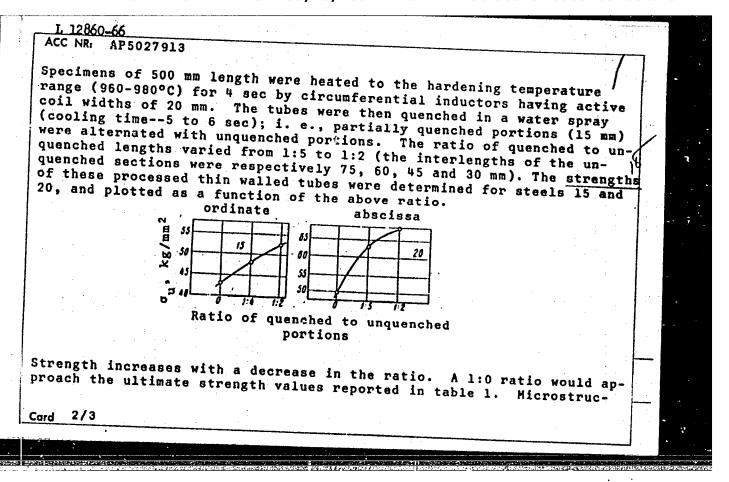
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ACC NR: AP5027913

tures revealed that the unquenched tube had a predominantly ferriticpearlitic matrix and after hardening, pseudopearlitic. As-quenched hardness ranged between 27 to 32 R_C (262 to 297 VHN). The plasticity unhardened sections. The authors' final conclusion was that an economy in wall thickness. Orig. art. has: 1 figure, 2 tables.

SUB CODE: 11/ SUBM DATE: 00/ ORIG REF: 002/ OTH REF: 000

ACC NR: AP7002444

SOURCE CODE: UR/0219/66/000/012/0067/0069

AUTHOR: Voroshnin, L. G.; Lyakhovich, L. S.; Funshteyn, Ya. N.

ORG: Belorussian Polytechnic Institute (Belorusskiy politekhnicheskiy institut)

TITLE: Boronizing of steel using boron-containing powder mixtures

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 12, 1966,

TOPIC TAGS: boronizing, boronized layer, boronized steel BORON STEEL, MIETAL POWDER, CORRESION RESISTANT STEEL

ABSTRACT: The process of boronizing steel with boron-containing powders is described. The powders involved were boron carbide, 18% ferroboron and ferroboral (14% B; 7.44% Si; 15.28% Al and the balance iron). Test pieces from 40 grade steel (0.38% C; 0.34% Si; 0.75% Mn; 0.08% Cr; 0.024% S; 0.029% P) measuring 5, 10, and 15 mm in diameter and 20 mm in length were ground, degreased with carbon tetrachloride, and placed in quartz pipes filled with boron-containing powder. The ends of the pipes were sealed off (one by soldering and the other with a heat-resistant paste). The effects of boronizing were then studied

Card 1/2

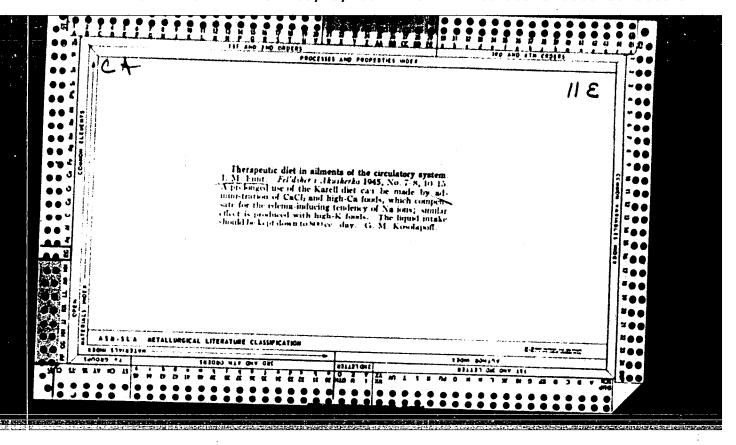
UDC: 621, 785, 34:661, 65

ACC NR: AP7002444

under various temperature conditions. The following was concluded: Ferroboron and ferroboral used as the powders for boronizing fail to provide an adequate degree of saturation: the boride layer formed did not exhibit sufficient wear-resistance but seemed, however, to have an increased resistance to corrosion and to high-temperature oxidation. It is found that boron carbide used as the boronizing powder provides a maximum degree of surface k redening and that the optimum conditions for boronizing are heating at 1000—1050C for 4—6 hr. Diagrams in the original text show 1) the depth of the boride layer as a function of temperature and time and 2) the effects of alloying elements on the depth of the layer boronized with various powders. Orig. art. has: 3 figures.

SUB CODE: 11/SUBM DATE: none/ORIG REF: 002/OTH REF: 001/

Cerd 2/2



TUNT, I. M.

"Significance of Gastroscopy in the Diagnosis of Certain Organic Ailments of the Stomach." Thesis for degree of Dr. Medical Sci. Sub. 6, Feb. 50, First Moscow Order of Lenin Medical Inst.

Summary 71. 4 Sep 52. <u>Dissertations Presented for Tegress in Science and Engineering in Moscow in 1950</u>. From <u>Vechernyaya Moskva</u>, Jan-Dec 1950.

FUNT, I.M.

Gustroscopy, its clinical significance, methods of indication and contra-indication. Klin.med., Moskva no.3:24-33 Mr '50.(CIML 19:2)

1. Of the Second Department of Therapy (Director -- Prof. M.B.Kogan) of the Central Institute for the Advanced Training of Physicians of the Ministry of Public Health attached to the Moscow Order of Lening Hospital imeni S.P.Botkin, Moscow.

FUNT, I.M.

FUNT, I. H.

Stomach in certain diseases of the gallbladder and liver. Tere arkh. 22:4, July-Aug. 50. p. 50-4

1. Of the Faculty Therapeutic Clinic (Director—Prof. V. N. Vinogradov, Active Hember of the Academy of Hedical Sciences), First Hoscow Order of Lenin Medical Institute.

CUIL 19, 5, Nov., 1950

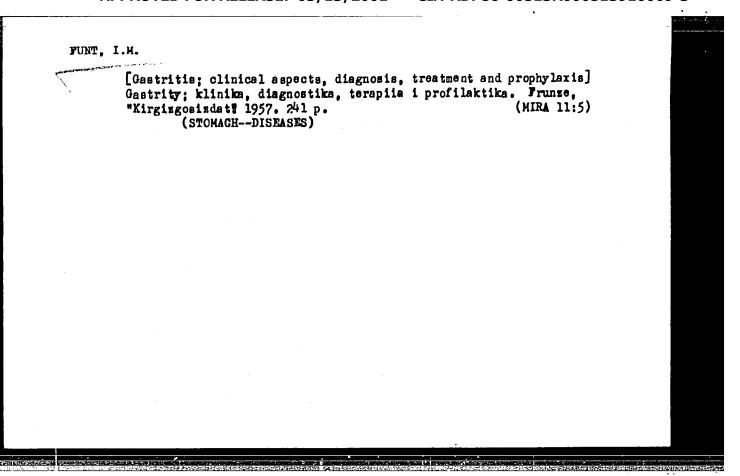
GastrAPPRONED, FOR RELEASE 103/13/2001 laktigia (RDP86-00513R000513910909-Therapy and Prophylamis) Moskva, 1953.

215 P. Illus., Ports.
"Literatura": P. 210-215.

At Head of Title: Russia. Ministerstvo Zdravookhraneniya.

SO: N/5 644.44

W 6938. Investigation of the fuedlocal state of the throad gland M. 1. with iodine-121 at varying levels of circulatary failure. I. M. Funt. and I. T. Kalyuchnyi Kim. Med., 1955, E3, 41–43; Refirm 28. Blot., 1956, Abstr. No. 87470.—The investigation of thyroid gland function using tracer doses of 2 pc. IIII showed that the IIII uptako was raised in 14 out of 57 cases having cardiac defects or insufficiency of stages II and III (uptake at 24 hr. exceeding 30% of the desc).
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6828. Investigation of the tractical state of the through that the with indine-121 at verying levels of circulatory fallars. L. M. Funttian L. T. Kaiyushnyi Kim. Med., 1955, 83, 41—43; Rejeau Zh. Biol., 1956, Abstr. No. 87470.—The investigation of thyroid gland function using tracer does so 12 µc 111 showed that the inti-pptake
L' 8939. Investigation of the functional state of the throad gland AA. with indine-121 at varying levels of circulatory fallars. L. M. Functional and I. T. Kalyuthnyi Kiin. Mcd., 1955, 23, 41-43; Reference and E. Biol., 1956, Abstr. No. 87470.—The investigation of thyroid gland function using tracer does of 2 pc 111 showed that the 111 uptake
with indine-131 at verification of the bracellenst state of the throid grand (A.). with indine-131 at verying levels of circulatory failure. L. M. Funtt (A.). and L. T. Kalyuthnyl Kim. Med., 1955, 23, 41—43; Referent Xi. Blot., 1956, Abstr. No. 87470.—The investigation of thyroid gland function using tracer does of 2 pc 111 showed that the 111 uptake
was raised in 14 out of 57 cases having eardine defects or insurfaciently of stages II and III (uptake at 24 hr. exceeding 30% of the desc).
The raised B.M.R. in circulatory disturbances may depend to some extent on thyrold hyperactivity. (Russian) J. E. S. Buserev



USSR/Human and Animal Morphology - Pathological Anatomy.

S

"Abs Jour

: Ref Zhur Biol., No 5, 1959, 21631

Author

: Funt, I.M., Malyshev, B.F., Kalyuzhnyy, I.T.

Inst Title

: Changes in Certain Internal Organs Under the Influen-

ce of Large Therapeutic Doses of a Radioactive Iso-

tope

Orig Pub

: Sov. zdravookhr. Kirgizii, 1957, No 5, 27-30

Abstract

After the subcutaneous injection of I¹³¹ in doses of 500-1500 millicuries into rabbits there is a disarrangement of the trabecular structure in the liver, there is a vacuolization of the cytoplasm of the liver cells, and a proliferation of the interlobular connective tissue; there are signs of marked irritation in the bone marrow; there is a disappearance of the lumen of the follicles, vacuolization of the cytoplasm of the cells of follicular epithelium in the

Card 1/2

- 37 -

USSR/Human and Animal Morphology - Pathological Anatomy.

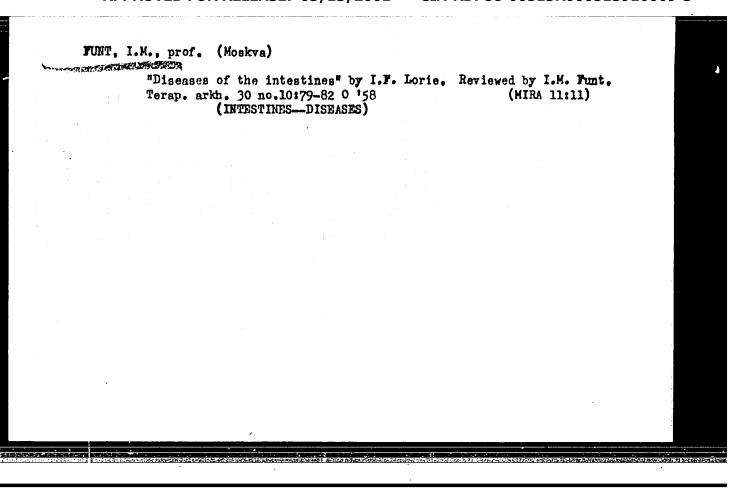
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' Abs Jour

: Ref Zhur Biol., No 5, 1959, 21631

thyroid gland. The presence of these changes causes us to limit the use of large doses of I¹³¹ even in the treatment of such serious diseases as carcinoma of the thyroid gland, nodular goiter and others. -- M.A. Khurges

Card 2/2



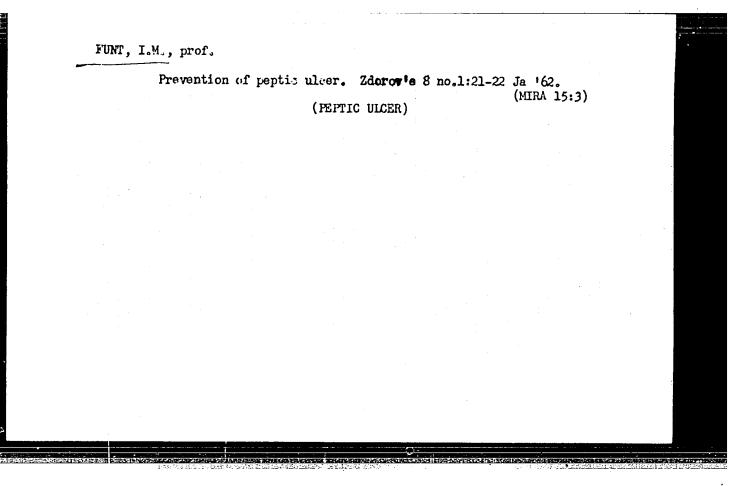
Some problems in the nature and clinical aspects of decompensation in patients with organic heart defects. Sov.zdrav.

Kirg. no.1:12-18 Ja-F '58. (MIRA 13:7)

1. Is kafedry gospital noy terapii (zav. - prof. I.M. Funt)

Kirgizskogo gosmedinatituta.

(HEART--ABNORMITIES AND DEFORMITIES)



BURCHINSKIY, G.I., prof.; BEYUL, Ye.A., kand. med. nauk;

VASILENKO, V.Kh., prof.; GUKASYAN, A.G., zasl. deyatel'

nauki, prof.; KARNAUKHOV, V.K., kand. med. nauk;

GUBERGRITS, A.Ya., prof.; LORIYE, I.F., prof.;

MEN'SHIKOV, F.K., prof.; PLOTNIKOV, N.N., prof.;

RABUKHINA, N.A., kand. med. nauk; RADBIL', O.S., prof.;

RYSS, S.M., prof.; SAL'MAN, M.M., kand. med. nauk;

SUKHININ, P.L., prof.; STEPANOV, P.N., prof.; FUNT, I.M.,

prof.; SHLAGUROV, A.A., prof.; TAREYEV, Ye.M., prof.,

otv. red.;

[Multivolume manual on internal diseases] Mnogotomnoe rukovodstvo po vnutrennim bolezniam. Moskva, Meditsina. Vol.4. 1965. 667 p. (MIRA 18:1)

1. Deystvitel'nyy chlen AMN SSSR (for Tareyev, Vasilenko).

2. Chlen-korrespondent AMN SSSR (for Ryss).

Local placement of mineral fertilizers. Nauka i pered. op. v sel'khoz. 6 no.11:80-82 N '56. (MIRA 10:1)

1. Glavnyy agronom Brynskoy mashinno-traktornoy stantsii (for Latyshev). (Fertilizers and manures)

EXCERPTA MEDICA Sec.19 Vol.1/3 Cardiovascular Mar 57

638. FUNT S. M. and KALYNZHNII S. T. Dept. of Hosp. Ther., Kirghiz Med. Inst., Frunze, USSR Study of the thyroid gland function in various degrees of deficient blood circulation (Russian text) Klin. Med. (Mosk.) 1955, 33.6 (41—43)

The absorption of radioactive iodine by the thyroid gland was found to be raised in 13 out of 40 patients suffering from valvular disease and deficient blood circulation of the 1st and 2nd degree and in one patient out of 6 patients with a compensated valvular disease. In 6 patients with deficient blood circulation owing to atherosclerotic fibrosis of the myocardium and in 7 patients with valvular disease and deficient blood circulation of the 3rd degree, the absorption of 1 in was normal. The authors conclude that: (1) the rise of the BMR often observed in patients with deficient blood circulation can in part of the cases depend on the hyperfunction of the thyroid gland; (2) the function of the thyroid gland in patients with a deficient blood circulation can be assessed more correctly by I in than by the BMR test.

Raskin – Leningrad

Ways of preventing gas leakages from underground coal gasification to the surface when burning-out coal seam areas lying close to the surface. Podzem. gaz. ugl. no.4:40-43 '58. (MIRA 11:12)

1.Gipropedzemgaz. (Coal gasification, Underground)
(Mine filling)

	Quari Sbor	rying and comp trud.Inst.gor (Donetsk	lete utilizatio dela AN URSR n Province-Ston	n of building mater no.8:49-50 '61. ne, Crushed)	ials. (MIRA 15:2)	
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FUNT, Ye.A., kand.tekhn.nauk; SHCHERBAKOVA, N.V., inzh.; BLOSHENKO, I.K., inzh.

Performance of the steel arch supports made from shaped sections in Donots Basin mines. Ugol' Ukr. 5 no.4:27 Ap '61.

(Donets Basin—Mine timbering)

TATOMIR, K.I.; FUNT, Ye.A.; BLOSHENKO, I.K.; SHCHERBAKOVA, N.V.

Cost of supporting development workings in the Donets Basin.

Trudy Inst.gor.dela AN USSR no.11:106-111 '62. (MIRA 16:2)

(Donets Basin-Mine timbering-Costs)

TATOMIR, K.I.; FUNT, Ye.A.; BLOSHENKO, I.K.; ANDRUSHKO, V.F.; SAPRYKIN, V.N.

Cost of maintaining haulage drifts depending on the mining depth. Sbor. trud. Inst. gor. dela AN URSR no.13:138-143 163

(MIRA 1717)

11.2

16,3400 16,4600

\$/020/60/132/04/12/064

AUTHOR: Funtakov, V. N. TITLE: Expansion in Eigenfunctions of a Non-Selfadjoined Differential Operator of Arbitrary Even Order on the [0,\infty] Half-Axis

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 4, pp. 777-780

 $1(y) = y^{(2n)} + p_2(x)y^{(2n-2)} + p_3(x)y^{(2n-3)} + \dots + p_{2n}(x)y,$ TEXT: Let (1)

where the $p_k(x)$ are complex-valued and summable in $[0,\infty)$. Let D be the set of all $y(x) \in L^2[0,\infty)$, for which 1) the $y^{(v)}(x)$, $v=1,2,\ldots,2n-1$, are absolutely continuous in every [0,b], b>0, and 2) $l(y) \in L^2[0,\infty)$. Let D_{α} be the set of functions $y(x) \in D$ which satisfy the boundary conditions

(2) $u_{\nu}(y) = \alpha_{\nu_0} y(0) + \alpha_{\nu_1} y'(0) + \ldots + \alpha_{\nu_{\nu_1} 2n-1} y'(0) = 0$, $\nu = 1, 2, \ldots, n$,

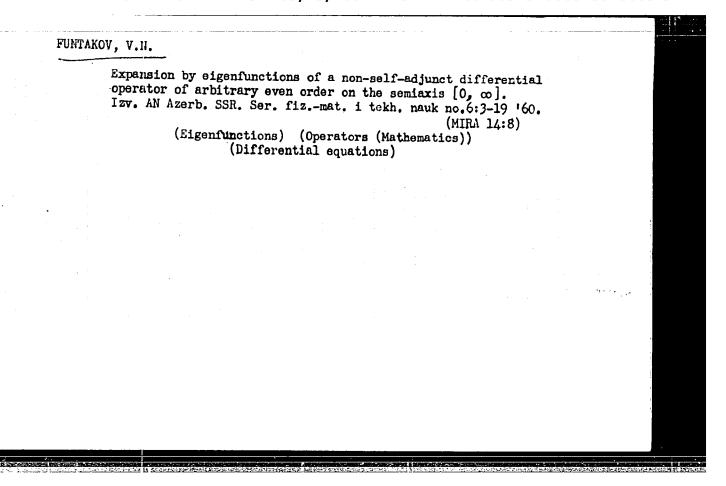
where \ll_k are complex numbers. In D let the operator L be defined by

 $L_{\infty}y = 1(y), y \in D_{\infty}$.

The author gives the asymptotic behavior of the linearly independent solutions of the equation $l(y) = \lambda y$ holomorphic in a certain sense, if the

Card 1/2

FUNTAK	ov, v.N.	
	Expansion into eigenfunctions of a non-self-conjugate differential operator of arbitrary even order on a [0, oo] semiaxis. Report No.21 Izv. AN Azerb. SSR. Ser. fizmat. i tekh.nauk no.1:3-21 '61.	
	(MIRA 14:4) (Eigenfunctions) (Operators (Mathematics)) (Differential equations, Partial)	
		:



38122 s/020/62/144/003/006/030 B112/B104

16.3400

Funtakov, V. N.

Expansion with respect to the eigenfunctions of a non-self-AUTHOR: adjoint singular differential equation of the second order TITLE:

Akademiya nauk SSSR. Doklady, v. 144, no. 3, 1962, 505-508

TEXT: The author investigates solutions $\omega_1(\lambda, x)$ and $\omega_2(\lambda, x)$ of the equation $-y'' + q(x)y = \lambda^2 y$ ($-\infty < x < \infty$), which satisfy the conditions $\omega_1(\lambda, 0) = 1$, $\omega_1(\lambda, 0) = 0$, $\omega_2(\lambda, 0) = 0$, $\omega_2(\lambda, 0) = 1$. A similar problem has been studied by V. A. Marchenko (Matem. sborn., 52 (94), 2, 739 (1960)). In this payer, the results obtained by V. A. Marchenko are extended to the case in question. The method of V. A. Marchenko is applied.

ASSOCIATION: Moskovskiy fiziko-tekhnicheskiy institut (Moscow Physico-

technical Institute)

January 12, 1962, by A. N. Kolmogorov, Academician PRESENTED:

Card 1/2

8/658/62/000/009/012/013 A059/A126

AUTHOR:

11 141

Funtakov, V.N.

TITIE:

On the expansion in eigenfunctions of non-self-adjoint singular op-

erators

SOURCE:

Moscow. Piziko-tekhnicheskiy institut. Trudy. no. 9, 1962. Is-

sledovaniya po mekhanike i prikladnoy matematike. 144 - 160

TEXT: Results obtained by M.A. Naymark (Trudy Moskovskogo amatematicheskogo obshchestva, v. 3, GITTL, 1954, 181 - 271) are applied to the case of nonself-adjoint singular operators of any even order, which are determined for the whole axis (- 00, 00). The differential equation

 $l(y) = \lambda(y);$

 $\rho^{2n}=-\lambda$, ω_1 , ω_2 , ..., ω_{2n} are the 2n-th roots of -1, and S_k , k=1, ..., 2n are the sectors of the complex ρ -plane determined by the inequalities $\frac{k\pi}{n} < \arg \rho < \frac{(k+1)\pi}{n}.$

The solutions of the equation (2.1) for the ranges $[-\infty, 0]$ and $[0, \infty]$ are

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On the expansion in eigenfunctions of

S/658/62/000/009/012/013 A059/A126

 $\tilde{y}_{k}^{(n)}(x, \rho) = \frac{\tilde{A}_{kk}(\rho)}{\tilde{A}_{k-1, k-1}(\rho)} \rho^{v} e^{\rho \omega_{k} x} \omega_{k}^{v} [1 + o(1)], \quad k = 1, 3, ..., 2n - 1$ (3.12b)

were found to hold for $x \to -\infty$, both for even and uneven values of n. The resolvent was found to be:

$$R_{\lambda} f = \int_{-\infty}^{\infty} K(x, \xi, \lambda) f(\xi) d\xi. \qquad (4.8)$$

The eigenfunction of the boundary condition is

$$\widetilde{y}(x, b) = -\sum_{i=1}^{n-1} \frac{\widetilde{u}_i}{\widetilde{u}_b} \widetilde{y}_i(x, \rho) + \widetilde{y}_n(x, \rho) - \sum_{i=n+1}^{2n} \frac{\widetilde{u}_i}{\widetilde{u}_b} \widetilde{y}_i(x, \rho), \qquad (5.6)$$

If b is sufficiently large, to each point

$$\alpha_k^{(1)} = \frac{k \pi i}{b} + \frac{i}{2b} \omega_1 \left(\frac{k \pi i}{n^b} \right)$$
 (5.23a)

$$\alpha_k^{(2)} = \frac{k\pi_1}{b} + \frac{1}{2b} \omega_2 \left(\frac{k\pi_1}{n^b} \right)$$
 (5.28b)

Card 3/5

or

\$/658/62/000/009/012/013

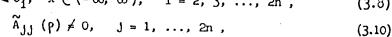
On the expansion in eigenfunctions of

in the region

$$|\operatorname{Re} \rho \omega_n| \leq \varepsilon, \quad \delta_1 \leq |\rho| \leq N - \delta_2, \quad \delta_1, \quad \delta_2 > 0$$
 (5.29)

corresponds accurately one proper value of the auxiliary boundary problem. If the conditions

 $e^{|\hat{c}||x||}|p_1(x)| < c_1, x \in (-\infty, \infty), i = 2, 3, ..., 2n,$ (3.8)



and $\theta_{1,2}(\rho) \neq 0$

are fulfilled, and $K(x, \xi, \lambda)$ is the nucleus of the resolvent of the operator L, we have:

$$K(x, \xi, \lambda) = -\frac{\omega_n}{\pi_i} \sum_{i=1,2} \int_{T_{l_r}} \frac{\tilde{y}^{(i)}(x, \rho) \tilde{y}^{(i)}(\xi, \rho)}{(\rho^{2n} + \lambda) \theta_i(\rho)} d\rho, \qquad (7.2)$$

where

$$\widetilde{y}^{(1)}(x, \rho) = \widetilde{y}_{n}(x, \rho) - \frac{\widetilde{A}_{nn}(\rho) \psi_{1}(\rho) \widetilde{\Pi}_{n}}{\widetilde{A}_{nn}(\rho) \widetilde{\Pi}_{n+1} - \psi_{1}(\rho) \widetilde{A}_{n,n+1}(\rho) \widetilde{\Pi}_{n}}. \quad (7.3)$$

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On the expansion in eigenfunctions of

S/658/62/000/009/012/013 A059/A126

If these conditions hold, and $g(x) \in \mathfrak{M}$ (\mathfrak{M} being the totality of all functions g (x)), with h (x) being any function summable in the range (- ∞ , ∞),

g(x) h(x) dx is absolutely convergent, and

$$\int_{-\infty}^{\infty} g(x) h(x) dx = \frac{\omega_n}{\pi_1} \sum_{1=1,2} \int_{T_k} \frac{\alpha_1(\rho) \beta_1(\rho)}{\theta_1(\rho)} d\rho, \qquad (7.6)$$

where

re
$$\alpha_{1}(\rho) = \int_{-\infty}^{\infty} g(x) \tilde{y}^{(i)}(x, \rho) dx; \quad \beta_{1}(\rho) = \int_{-\infty}^{\infty} h(x) \tilde{y}^{(i)}(x, \rho) dx. \quad (7.7)$$

inks are due to M.A. Naymark as the author's scientific to the sum of the

Thanks are due to M.A. Naymark as the author's scientific instructor.

Card 5/5

FUNTEK, M.

Physical effect of a lowered atmospheric pressure. p. 522.

VAZDUHOPLOVNI GLASNIK. (Jugoslovensko ratno vazduhoplovstvo) Zemun, Yugoslavia

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 9, Sept. 1959

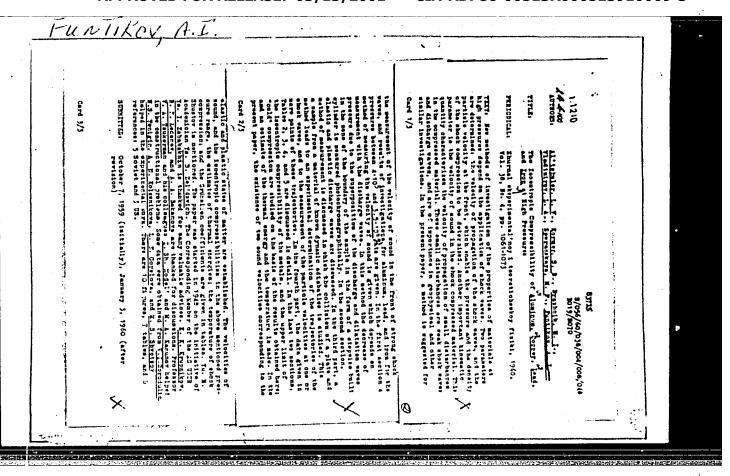
JOVANOVIC, Mihailo, sanitetski potpukovnik, dr.; FUNTEK, Mihajlo, sanitetski pukovnik, dr.

The problem of otorhinolaryngological wounds in modern warfare.
Vojnosanit. pregl. 20 no.1/2:43-52 Ja-F '63.

1. Vojna bolnica u Skoplju, Odeljenje za uvo, nos i grlo.
(OTORHINOLARYNGOLOGY) (WOUNDS, GUNSHOT)

(ATOMIC WARFARE) (WAR)

FUNIEN.y	Mihajlo, sanitetski pukovnik, dr. Our experience with the organization of health serv	ices in
	destroyed Skoplie. Vojnosunit. pregl. 21 no.73448-4 Jl-Ag '64	55;
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	<i>:</i>	
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AL'TSHULER, L.V.; KORMER, S.B.; BAKANOVA, A.A.; FETRUNIN, A.P.;

FUNTIKOV, A.I.; GUBKIN, A.A.

Irregular conditions of oblique collision of shock waves in solids. Zhur. eksp. i teor. fiz. 41 no.5:1382-1393 N '61.

(Shock waves)

(Shock waves)

\$/056/62/042/003/007/049 18.8100 245300 B104/B102 Kormer, S. B., Funtikov, A. I., Urlin, V. D., Kolesnikova, A.N. AUTHORS: TITLE: Dynamic compression of porous metals and the equation of state with variable specific heat at high temperatures PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42, no. 3, 1962, 686 - 702 TEXT: The dynamic compression of Al, Cu, Pb, and Ni with relative densities between m = 1 and m = 4 (m = Q_0/Q_{00} , where Q_0 = density of the compact material, Q_{00} = density of the porous material) was studied in the pressure range of $0.7 \cdot 10^{12} - 9 \cdot 10^{12}$ dynes/cm². A polyempirical interpolated equation of state is developed which takes account of the specific heat variations and the density and temperature dependence of the Grüneisen coefficient $P = P_{x}(\rho) + \frac{3\gamma(\rho) + z(\rho, T)}{1 + z(\rho, T)} \rho R(T - \hat{T}) + g(\rho) \rho \frac{b^{2}}{\beta(\rho)} \ln \cosh \frac{\beta(\rho) T}{b},$ $E = E_{x}(\rho) + \frac{2+z(\rho,T)}{1+z(\rho,T)} \cdot \frac{3}{2}R(T-\hat{T}) + \frac{b^{2}}{\beta(\rho)} \ln \cosh \frac{\beta(\rho)T}{b}.$ (15). Card 1/3

S/056/62/042/003/007/049 B104/B102

Dynamic compression of ...

Card 2/3

The equations of state of Mie-Grüneisen, and the equation of state with the electronic specific heat components, are special cases of (14), (15). Solid metals and metal vapors can be described by these equations of state. The shock adiabats calculated for metals of different densities are in good agreement with experimental data. The gas pressure and the lattice energy can be determined from the equation of state by a limiting process. The electronic analog of the Gruneisen coefficient is found for Cu and Ni, and estimated for Pb and Al. Symbols used in the equations: χ is the Grüneisen coefficient, $\beta(q)$ the electronic specific capacity, $z = 1RT/c_x^2$, where 1 is a quantity to be determined experimentally. K. K. Krupnikov, B. N. Ledenev, L. V. Al'tshuler, A. A. Bakanova, R. F. Trunin, V. N. Zharkov, V. A. Kalinin, and N. N. Kalitkin are mentioned. S. V. Yezhkov, G. M. Yesin, and V. I. Yefremov are thanked for assisting with experiments, Yu. A. Glagoleva and L. T. Popova for assisting with calculations, L. V. Al'tshuler, A. A. Bakanova, K. K. Krupnikov, and R. F. Trunin for discussions, and Ya. B. Zel'dovich, V. P. Kopyshev, Yu. P. Rayzer, and K. A. Semendyayev for consultations. There are 11 figures, 5 tables, and 22 references: 15 Soviet and 7 non-Soviet. The four most recent references to English-language publications

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86

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Dynamic compression of ...

S/056/62/042/003/007/049 B104/B102

read as follows: R. G. McQueen, S. P. Marsh, J. Appl. Phys., 31, 1253, 1960; J. S. Dugdale, D. K. McDonald, Phys. Rev., 89, 832, 1953; J. J. Gilvarry, Phys. Rev., 96, 934, 944; 99, 550, 1955; Handbook of Chemistry and Physics, 37ed Chemical Rubber publishing Co. Cleveland, 1955 - 1956.

SUBMITTED: August 10, 1961

Card 3/3

L 13950-65 AS(mp)-2/AEDC(a)/ESD(gs) ACCESSION NR: AP4047885 \$/0056/64/047/004/1202/1213 AUTHOR: Kormer, S. B.; Sinitsy*n, M. V.; Funtikov, A. I.; Urlin, V. D.; Blinov, A. V. TITLE : ... Investigation of the compressibility of five ionic compounds at pressures up to 5 Hb Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 47, no. 4, 1964, 1202-1213 TOPIC TAGS: compression, high pressure, compressibility, ionic crystal ABSTRACT: The dynamic compression of Lif, NaCl, KCl, KBr, and CsBr ionic crystals of normal and reduced density is investigated for a wide range of pressures, densities, and temperatures. The highest pressure attained was 5 Mb, and the maximum compression ratio (density/reduced density) was 3.4. The experimental data can be described by an equation of state in which the tempa -- are change due to specif ic heat and the thermal excitation of el .. rons is taken into account Card 1/2

L 13950-65

ACCESSION NR: AP4047885

7

The data obtained indicate an anomalous behavior of NaCl, KCl, KBr, and LiF crystals during shock compression. For the first three crystals, density discontinuities were detected in the liquid state. It is suggested that this may be due to a change in the coordination number which occurs during the same length of time in which a shock wave is propagated along a sample. Orig. art. has: 7 figures, 4 tables, and 4 formulas.

ASSOCIATION: none

SUBMITTED: 18Apr64

ENCL: 00

SUB CODE: 35, ME

NO REF SOV: G12

OTHER: 004

ATD PRESS: 3133

Card 2/2

51.719-65 EMT(m)/EMP(w)/EMA(d)/T/EMP(E)/EMP(k)/EMP(b)/EMA(c) Pf_4 IJP(c)

JD/HW UR/0387/65/000/005/0001/0003 L 61719-65 AUTHORS: Kormer, S. B.; Funtikov, A. I. 550.311:539.89 TITLE: Impact compression of ferrosilicon and the possible composition of the earth's core SOURCE: AN SSSR, Izvestiya. Fizika Zemli, no. 5, 1965, 1-3 TOPIC TACS: high pressure, iron alloy, silicon alloy, earth core, impact testing ABSTRACT: The impact compression of iron and silicon alloy has been investigated as possibly representing the composition of the earth's core. The material tested was industrial ferrosilicon with a composition of 81.3% Fe, 17.4% Si, and 1.1% C, representing a solid solution of silicon in alpha-iron with inclusions of graphite. The average specific gravity of the material was 6.91. Measurements of impact compression were made by reflection at the front of a shock wave. Velocities of the shock wave were determined, and the density under compression was computed at pressures ranging from 0.48 to 3.3 megabars. It was found that the velocity of sound waves computed for the ferrosilicon at 4000K and the appropriate pressure agrees with geophysical data somewhat better than the value for pure iron. It is Card 1/2

1719-65 ACCESSION NR: AP5017788		0	
suggested that an outer core of fore corresponds to most of the core. Results of the present stalloy cannot exceed 20%. In a sof 4.74), the density under impact the core of 11.3 as a core of 2.6 mogadars, instead of 11.3 as a core of the core of	geophysical data on the tudies indicate that the study of pyrite, contain act compression proved to s required according to	e properties of this outer elight constituent in the ning 60% Fe (with a sp gr	
rig. art. has: 3 figures and 1	l table.	•	
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ASSOCIATION: none SUBMITTED: 16Nov64	ENCL: 00		
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FUNTIKOV, A. P.

Windmills - Chkalov Province

Use of windmills on Chkalov Province collective farms. Sots. zhiv. 14 No. 9, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

/dequatometry and discretemetry of the human visual analysis at different goographic latitudes. Nerv. sist.(leningrad) 2 no.3:139-144 '62. (E.E. 17:7)

1. Kafedra biofiziki Fiziologicheskogo instituta imeni ükhtomskogo Leningradskogo gosudarstvennogo universiteta.

FUNTIKOV, B.A.

Investigating the excitability of the human visual analyzer during rolling at sea. Vest. LGU 18 no.21:171-174 '63 (MIRA 16:12)

ACCESSION NR: AT4039716

\$/3094/63/074/001/0116/0117

AUTHOR: Funtikov, B. A.

TITLE: A study of the excitability of the visual and auditory analyzers of man under different climatic conditions

SOURCE: Leningradskoye obshchestvo yestestvolspy*tateley. Trudy*, v. 74, no. 1, 1963. Protokoly* zasedaniy i soobshcheniya, 1961/62 g. (Transactions of conferences and reports), 116-117

TOPIC TAGS: visual excitability, auditory excitability, visual analyzer, auditory analyzer, audio sensitivity, visual acuity, climate, arctic physiology, tropical physiology, chronaxy, adequate optical rheobase

ABSTRACT: An investigation into the effect of various climatic conditions on audio and visual performance was made on the crew of a ship during passage through various geographical areas. Three series of experiments were performed in three years; each series involved 10-12 men, 20-25 years of age, most taking part in all three experiments. By using an optical adequatometer to measure the visual excitability and a sound frequency generator to measure the audio excitability, the authors showed that during the change from temperate to arctic and tropical conditions, there is usually a change in the adequate optical rheobase (AOR), as well as in threshold ared.

ACCESSION NR: AT4039716

time, including the adequate optical chronaxy. In some cases only the threshold time changed and in some cases only the AOR. In one case the threshold energy of the optical stimulus was 1.6 times higher in the tropics and 1.2 times lower in the arctic than in the temperate zones. Analogous results were obtained for the remaining individuals. The audio excitability changed in a somewhat different way than the visual excitability with a change in climate. The audio threshold was consistently lowest in the arctic and highest (2.5-3.5 db) in the tropics. Chronaxy and other time thresholds did not change in parallel with the intensity threshold, but the chronaxy was smallest in the tropics. In one individual, the chronaxy was 1.4 times longer and intensity threshold 3.1 times lower in the arctic than in the tropics. These data indicate the high excitability of the audio analyzer in the arctic as compared with the temperate and tropical areas. The changes in excitability were not accompanied by any other physiological changes, with the exception of a slight hyperthermia (37.1-37.2C) and a slight decrease in the blood pressure (5-10 mm Hg) in the tropics. The changes in excitability occurred soon after the change in climate and persisted for the duration of stay in the area.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 12Jun64

ENCL: 00

2/2 SUB CODE: LS

NO REF SOV: 000

OTHER: 000

FUNTIKOV, B.A.

Investigation of the excitability of the visual and auditory analysors of man under various climatic conditions. Trudy Len. ob-va est. 74 no. 1:116-117 '63. (MIRA 17:9)

FUNTIKOV, B.A.

Adequatemetric research on the human visual and auditory analyzers during the process of adaptation to climatic conditions. Fiziol. zhur. 49 no.9:1044-1049 S 163.

1. Kafedra biofiziki Gosudarstvennogo universiteta A.A. Zhanova, Leningrad.

FUNTIKOV, B.A.

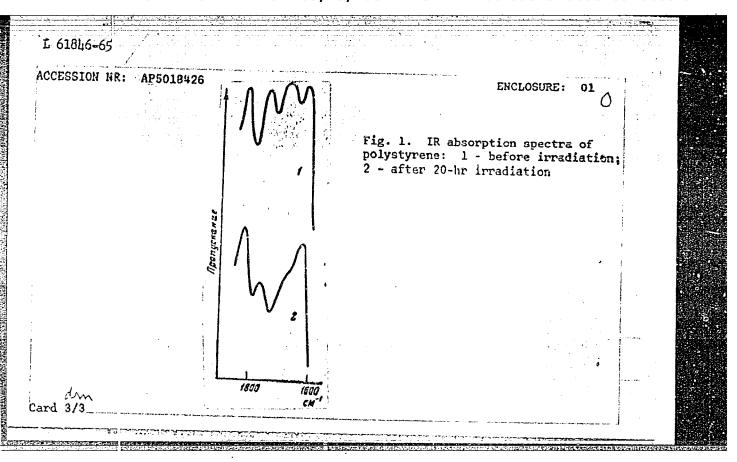
Adequatemetry of the visual analyser in man under the general influence of high and low temperatures. Vest. LGU 19 no.21: 155-158 '64 (MIRA 1821)

SHELEPIN, M.N.; PAUK, M.Ya.; FUNTIKOV, V.Z.; VARLAMOV, S.S.; SLIN'KO, A.G.; TOMLENOV, V.K.; ZAGNIYEV, V.M.

Saving of power in a compressor station. Prom.energ. 17 no.7:6
J1 '62. (MIRA 15:7)
(Compressed air) (Compressors)

L 61816.65 EWT(m)/EPF(c)/EWP(j) Pc-4/Pr-4/Ps-4 JAJ/RM/W ACCESSION NR: AP5018426 UR/0190/65/007/007/1171/1172 678.01:54+678.746 AUTHOR: Karyakin, A. V.; Funtikova, A. I. TITLE: Photodegradation of polystyrene SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 7, 1965, 1171-1172 TOPIC TAGS: polystyrene photodegradation, ultraviolet irradiation, oxidation inhibition ABSTRACT: The object of the work was to determine the effect of ultraviolet radiation on the degradation of polystyrene and to refine the mechanism of the processes involved by use of infrared spectroscopy. Measurements in the IR region (see Fig. 1 of the Enclosure) were made at 400-4000 cm-1, and in the UV region, at 220-800 mu, using transparent, homogeneous films 70-80 µ thick prepared from a 10% solution of polystyrene in benzene. The data showed that UV irradiation induces photodegradation processes, and consequently stabilizing agents should be introduced into polystyrene. The stabilizing effect of various inhibitors of oxidizing processes and the effect of luminescent substances used as stabilizers of polymers were determined Card 1/3

from the ratio of the optical density of the irradiated film sample (Dirr) to the optical density of the nonirradiated sample (Dnonirr) for the 1745 cm ⁻¹ absorption band. The strongest stabilizing effect was displayed by beuzophenone derivatives, which have a very high absorption coefficient in the ultraviolet (at 200-400 mm). Resorcinal dibenzoate, 2-hydroxy-4-alkoxybenzophenone, 4-methoxy-0-hydroxybenzophenone, resorcinal disalicylate, and 2-hydroxy-4-methoxybenzophenone were found to be the test stabilizers for polystyrene exposed to ultraviolet radiation. Orig. ASSOCIATION: Institut geckhimii i analiticheskoy khimii im. V. I. Vernadskogo AN SSSR (Institute of Geochemistry and Analytical Chemistry, AN SSSR) SUBMITTED: 28Jul64 ENCL: OLF SUB CODE: GC, OF NO REF SCV: 001 OTHER: 000	ACCESSION NR: AP5018426		and the second s	A Section of the second	
SUB CODE: GC, OF	band. The strongest stabil which have a very high abso Resorcinol dibenzoate, 2-hy phenone, resorcinol disalio	dizing effect was displayed by protion coefficient in the ultradray-4-alkoxybenzophenone,	or the 1745 cm ⁻¹ al y beuzophenone der: traviolet (at 200- 4-methoxy <i>-o-</i> hydroxy	bsorption ivatives, 400 mm). 400 mp).	
OTHER: 000	art. has: 1 figure and 1 t ASSOCIATION: Institut geck SSSR (Institute of Geochemic	able. himii i analiticheskoy khimii stry and Analytical Chemistry	aviolet radiation.	Orig.	
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FUNTIKOVA, G.D.

From the inspection work practices in Latvia. Zashch. rast. ot vred. i bol. 8 no.8:49 Ag '63. (MIRA 16:10)

1. Nachal'nik Latviyskoy karantinnoy inspektsii.

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ROMANENKO, I.; PLETNEVA,G., metodist/ FUNTIROVA, K., Detodic Exhibitions of special items. Inform. blul. VINKH post G: 34-36 0 164 (MIRA 18:1) 1. Glavnyy metodist pavil'ona "Zdravoskhraneniya i meditsin-dkaya promyshlennost" na Vystavko dostizheniy narodnogo khoz-yaystva SSSR (for Romanenko). 2. Favil'on "Sovetskaya kul'tura" na Vystavke dostizheniy narodnogo khozynystva SSSR (for Pletnews). 3. Pavil'an "Obrazovaniye" na Vystavke dostizheniy narodnego khozyaystva SSSR (for Fantikova).

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APPROVED FOR RELEASE: 03/13/2001

s/072/60/000/009/008/009/XX BO21/B058

AUTHORS:

Dubova, O. A., Begel'fer, K. I., Sazonova, F. A.,

Funtikova, K. M.

TITLE:

Complexometric Determination of Aluminum in High-alumina

Materials

PERIODICAL:

Steklo i keramika, 1960, No. 9, pp. 43-44

TEXT: The content of aluminum oxide in aluminous raw materials has so far been gravimetrically determined in the laboratory. This method is, however, time-consuming and does not permit a quick sorting of the incoming raw material. In order to speed up analysis, the works laboratory used the method of accelerated complexometric titration Al203 in aluminous raw materials and refractories. In order to prove the suitability of this method, a series of comparative analyses of Al₂O₃ were made by the gravimetric and complexometric method, and are tabulated. These data show the sufficient accuracy of the complexometric method. The method proposed here is described next in detail. Trilon was used as a reagent. There are

Card 1/2

BEGEL FER, K.I.; SAZONOVA, P.A.; FUNTIKOVA, K.M.

Rapid EDTA method of separate determination of the oxides Fe_2O_3 and Al_2O_3 in materials containing aluminum. Stek.i ker. 19 no.4:30-31 Ap '62. (MTRA 15:8)

1. Lisichanskiy stekol'nyy zavod.
(Acetic acid) (Iron oxides) (Aluminum oxides)

FUNTIKOVA, K.M.; SAZONOVA, P.A.; BEGEL'FER, K.I.

Rapid determination of iron oxides and aluminum in sand. Stek. i ker. 20 no.10:40-41 0 '63. (MIRA 16:10)

(Sand, Glass—Analysis) (Iron oxides—Analysis)
(Aluminum—Analysis)

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GAPCHENKO, P.K.; MALYUKH, Z.M.; PLATONOV, M.I.; OREL-KRAYUSHKIN, V.S.;

**PUNTIKOVA K.P.: KRYUKOV, V.L., redaktor; PAVLOVA, M.M., tekhnicheskiy redaktor

["Collective farm building" pavilion; a guidebook] Pavilion "Postroi-ki kolkhoznogo sela"; putevoditeli. Moskva, Gos. izd-vo selkhoz. lit-ry, 1956. 26 p. (MLRA 9:10)

- 1. Moscow. Vsesoyuznaya seliskokhozyaystvennaya vystavka, 1954-
- 2. Direktor pavil'onov (for Platonov)
 (Moscow--Farm buildings--Exhibitions)

ROMANENKO, I.A.; BRUSKIN, Ye.i., metodist; FUNTIEDVA, E.F., metodist

Exhibitions of special items. Inform.biol.VDNFH no.5.33-35 My 164.

(MIRA 18 5)

3. Glavnyy metodist paviliana "Zdravnokhraneniye" meditrinokaya promyshlennosti" na Vyatavke dustizioniy narodnego khozyayatma (for Romanenko). 2. Favilian "Obrezovaniye" na Vyelava-dostizheniy narodnego khozyayatwa SSSR (for Rouskin, Puntikova).

L 42470-65 EEC-2/EWT(d)/FSS-2/EEC-4/EEC(t)/EED-2 Pn-4/Pp-4/Pac-4
ACCESSION NR: AP5006635 S/0146/65/008/001/0055/0061

AUTHOR: Funtov, N. M.; Smirnov, G. V.; Petrov, Ye. A.; Osipov, Yu. M. E

TITLE: Comparison of several methods of converting a single electrical signal into a series of discrete values

SOURCE: IVUZ. Priborostroyeniye, v. 8, no. 1, 1965, 55-61

TOPIC TAGS: signal conversion, continuous discrete signal conversion

ABSTRAC: In converting a single continuous signal into a series of discrete signals, it is essential to know the error that accompanies the conversion. The errors inherent to these methods are theoretically compared: (1) Conversion of voltage into a proportional time interval; (2) Use of a number of discrete levels of the comparison voltage (includes PAM); (3) Use of a number of comparison voltages proportional to the weight of binary positions. It is found that the first method requires only one-half or less the equipment necessary for the other

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L 42470-65

ACCESSION NR: AP5006635

methods; however, it is slow and only applicable for coding signals of a few milliseconds' duration. The second method does not provide high accuracy and is suitable for recording signals of a few dozen microsecond duration. The third method is suitable for those applications where the signal is of hundreds of microsecond duration, high accuracy is not required, and the signal dynamic range is not large. Orig. art. has: 4 figures and 12 formulas.

ASSOCIATION: Leningradskiy institut tochnoy mekhiniki i optiki (Leningrad Institute of Fine Mechanics and Optics)

SUBMITTED: 02Dec63

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NO REF SOV: 001

OTHER: 000

FUNTIROVA, V.I

USSR/Chemical Technology - Chemical Products and Their

Application. Food Industry.

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2966

Author : Ivanina, T.F., Funtikova, V.I.

Inst : Moscow Technological Institute of the Meat and Dairy

Industry

: Use of the Method of Tagged Atoms for Determining the Title

Solubility of Tin in Milk and Dairy Products.

: Sb. stud. rabot Mosk. tekhnol. in-t myas. i moloch. prom-Orig Pub

sti, 1956, No 4, 46-51

: Brass plates 1 cm2 in size, coated with fused radioisotope Abstract

of tin, were immersed in various dairy products (25 ml of each), namely: fresh milk, whey separated from cheese, cream, condensed milk with added sugar, and memted cheese (the cheese was cut in 1 cm3 pieces which were placed on

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USSR/Chemical Technology - Chemical Products and Their

I-13

I-13

Application. Food Industry.
APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000513910009-

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2966

the plates). Control media were distilled water and 0.1 N lactic acid. The plates were allowed to remain in the product for 3-4 days, at about 200. The amount of tin that passed into the product was determined with a Geiger-Muller counter, at intervals of 4 hours during the first 24 hours and every 12 hours thereafter. Tin dissolves at a highest rate in melted cheese, less so in the whey and only very little in fresh milk. By the method of tagged atoms it is possible to determine 15 mg Sn in l liter of a solution.

FUNTOV, N.M., dots.; PEVZNER, Ye.M.;

[Study of the properties of single-phase and three-phase sine wave current; laboratory manual] Issledo-vanie svoistv odnofaznykh i trekhfaznykh tsepei sinusoidal'nogo toka; rukovodstvo dlia laboratornykh rabot. Leningrad, 1962. 51 p. (MIRA 17:5)

l. Leningrad. Leningradskiy institut tochnoy mekhaniki i optiki. Kafedra teoreticheskikh osnov elektrotekhniki.

OSIPOV, Yuriy, Mikhaylovich, assistent; PEVZNER, Yevsey Markovich, starshiy prepodavatel; PRYANISHNIKOV, Viktor Alekseyevich; FUNTOV, Nikolay Mikhaylovich, kand. tekhn. nauk, dotsent

Parallel operation of impulse lamps. Izv. vys. ucheb. zav.; elektromekh. 6 no.10:1157-1160 '63. (MIRA 17:1)

1. Kafedra teoreticheskikh osnov elektrotekhniki Leningradskogo instituta tochnoy mekhaniki i optiki (for Osipov, Pevzner).

2. Starshiy inzhener kafedry teoreticheskikh osnov elektrotekhniki Leningradskogo instituta tochnoy mekhaniki i optiki (for Pryanishnikov).

3. Zaveduyushchiy kafedroy teoreticheskikh osnov elektrotekhniki Leningradskogo instituta tochnoy mekhaniki i optiki (for Funtov).

OSIPCV, Yu.M., insh., PEVZNER, Ye.H., inzh., FRYANISHNIKOV, V.N., inzh., FUNTOV, N.M., insh.

Impulse-type lighting system. Svetotekhnika 9 no.6:28-29 Je *63. (MIRA 16:6)

1. Leningradskiy institut tochnoy mekhaniki i optiki. (Electric lighting) (Photography—Electric equipment)

MMENETS, V.A.; FUNTOV, Yu.Ye.

Comparative analysis of technical and economic indices of openhearth furnace plants with 500- and 250-ton furnaces. Isv.vys. ucheb.zav.; chern.met. 5 no.11:202-208 62. (MIRA 15:12)

1. Moskovskiy institut stali i splavov.
(Open-hearth furnaces-Cost of operation)

ROMENETS, V.A., kand.tekhn.nauk; FUNTOV, Yu.Ye., inzh.

Comparison of performance figures of 500-ton open-hearth furnaces in two plants. Stal' 22 no.9:795-796 S '62. (MIRA 15:11)

1. Moskovskiy institut stali. (Open-hearth furnaces)

ROMENETS, V.A., kand.tekhn.nauk; FUNTOV, Yu.Ye., inzh.

Cost of steel made in a 500-ton open-hearth furnace. Stal! 23 no.4:369-371 Ap 163. (MIRA 16:4)

1. Moskovskiy institut stali i splavov.
(Open-hearth process-Costs)

ROMENETS, V.A.; FUNTOV, Yu.Ye.

Effect of the capacity of open hearth furnaces on their yearly output. Izv. vys. ucheb. zav.; chern. met. 7 no.12:168-172 164 (MIRA 18:1)

1. Moskovskiy institut stali i splavov i Sibirskiy metallurgicheskiy institut.

ROMENETS, V.A., kand. tekhn. nauk; FUNTOV, Yu.Ye., inzh.

Capacity of open-hearth furnaces and their economic indices.

Stal 24 no.8:741-745 Ag '64. (MIRA 17:9)

